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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.      | CONFIRMATION NO. |
|--|-------------|----------------------|--------------------------|------------------|
| 10/775,237   | 02/11/2004  | Tatsuo Murai         | ASAM.0111                | 1008             |
| 7590 11/04/2004  |             |                      | EXAMINER                 |                  |
| REED SMITH LLP<br>Suite 1400<br>3110 Fairview Park Drive<br>Falls Church, VA 22042 |             |                      | BLACKMAN, ROCHELLE ANN J |                  |
|  |             |                      | ART UNIT                 | PAPER NUMBER     |
|  |             |                      | 2851                     |                  |

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

*AK*

|                              |                               |                              |  |
|------------------------------|-------------------------------|------------------------------|--|
| <b>Office Action Summary</b> | Application No.<br>10/775,237 | Applicant(s)<br>MURAI ET AL. |  |
|                              | Examiner<br>Rochelle Blackman | Art Unit<br>2851             |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 February 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>2/11/04 &amp; 5/19/04</u> .   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Claim Objections***

Claims 5 and 8 are objected to because of the following informalities: claim 5 recites the limitation "the other side surface" in line 3 of the claim. There is insufficient antecedent basis for this limitation in the claim. It is suggested that applicant change "the other" to - -another- -. In claim 8, line 9, "vicinities" should be - - in the vicinity- -.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Zavracky et al. (U.S. Patent No. 5,713,652).

Zavracky discloses a liquid crystal projector (10) comprising: an equipment body (200) containing projection means (250) and cooling means (259) and including an air intake port and an air exhaust port; a case (110) for housing said equipment body; and a sliding device (105, 212, 214, 216, 218, 220) for sliding said case so as to take a first state (see 200 in Fig. 2A, 2B, and 4B) in which said equipment body pulled out of said case and a second state (see 200 in Fig. 4A) which said equipment body is housed said

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case, said air intake port and said air exhaust port being closed at said first state (see Fig. 4A) and opened outside at said second state (see 259 in Fig. 4B); wherein said equipment body comprises an air duct (see 259 and col. 6, lines 6-14) which opens said air intake port and said air exhaust port outside at said first state; wherein said air intake port is provided on a bottom surface of said equipment body and said air exhaust port provided on a rear portion of said equipment and body (also 259 and col. 6, lines 6-14), said case comprises intake ventilation holes for opening said air intake port outside through said duct and exhaust ventilation holes for opening said air exhaust port outside through said air duct (also 259 and col. 6, lines 6-14); wherein said exhaust ventilation holes are provided on a rear surface side of a top surface, a rear surface side of side surfaces, or rear surface of said case, and said intake ventilation holes are provided on a front surface side of a bottom surface of said case (also 259 and col. 6, lines 6-14); wherein said case includes a notch (see 105) extending from a part of one side surface to a part of the other side surface of said case through a bottom surface, and said equipment body includes a fitting part (220) which fits into said notch, and travels along said notch as said case travels with respect to said equipment body; wherein said case comprises a case body (see 120, 142, 143) for housing said equipment body and a case part (see 210) provided on a front surface of said equipment body; wherein said projection means comprises a projection lens (11) , an optical device (250, 251a, 252a, 252b) disposed vicinities of said projection lens, a light source (see 1011 and col. 5, lines 65-66) disposed vicinities of said optical device and a ventilation fan (see col. 6, lines 6-14) disposed vicinities of said light source, and said optical device comprises an

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optical element (251a, 252a, 252b) disposed on a rear side of said projection lens and a display panel (250) disposed vicinities of said optical element.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 6, and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang et al. (U.S. Patent Application Publication No. 2004/0141155).

Wang discloses a liquid crystal projector (see FIGS. 3-10) comprising: an equipment body (12 of FIG. 4) containing projection means (26, 27) and cooling means (20) and including an air intake port (16) and an air exhaust port (18); a case (14) for housing said equipment body; and a sliding device (although not specifically shown, "case" 14 is considered to have some sort of sliding mechanism since "equipment body" 12 is slid or pulled out of "case" 14 in FIG. 4 – see paragraph [0026]) for sliding said case so as to take a first state in which said equipment body pulled out of said case and a second state which said equipment body is housed said case, said air intake port and said air exhaust port being closed at said first state and opened outside at said second state (see FIG. 3 – projector not in use, so the "intake port" 16 and "exhaust port" 18 are "closed", air streams 22 do not pass through); wherein said case comprises a case body

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(also see 14) for housing said equipment body and a case part (see front of "equipment body" 12) provided on a front surface of said equipment body; wherein said projection means comprises a projection lens (see 27 and paragraph [0025])), an optical device (also see 27 and paragraph [0025]) disposed vicinities of said projection lens, a light source (26) disposed vicinities of said optical device and a ventilation fan (20) disposed vicinities of said light source, and said optical device comprises an optical element (also see 27 and paragraph [0025]) disposed on a rear side of said projection lens and a display panel (also see 27 and paragraph [0025]) disposed vicinities of said optical element.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. (U.S. Patent Application Publication No. 2004/0141155) in view of Oehler, U.S. Patent No. 6,481,855.

Wang discloses the claimed invention except for wherein said equipment body includes: attitude control legs provided on a front surface side of a bottom of said equipment body so as to protrude from and retract into the equipment body; a lock mechanism for locking or unlocking said attitude control legs; and release buttons for

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unlocking said lock mechanism, said release buttons being provided on said equipment body so that the release buttons are pushed by said case in a used state of the projector and the release buttons are released from being pushed by said case in a non-used state of the projector.

Oehler teaches providing attitude control legs (60, 66) provided on a front surface side of a bottom of an equipment body so as to protrude from and retract into the equipment body; a lock mechanism (see 62 and teeth – also 66 in FIG. 4) for locking or unlocking said attitude control legs; and release buttons (54) for unlocking said lock mechanism, said release buttons being provided on said equipment body so that the release buttons are pushed by said case in a used state of the projector and the release buttons are released from being pushed by said case in a non-used state of the projector.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the “equipment body” of the Wang reference with “attitude control legs” as taught by Oehler, in order to provide automatic keystone distortion correction that requires no additional optics or manual adjustments (see col. 2, lines 17-23).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RB



**JUDY NGUYEN**  
**PRIMARY EXAMINER**